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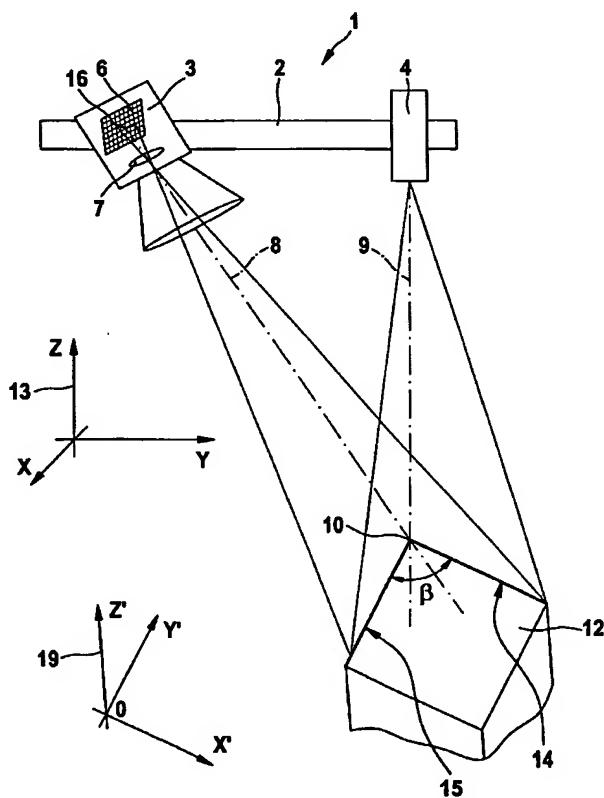
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*[Continued on next page]*

(54) Title: METHOD FOR CALIBRATING A CAMERA-LASER-UNIT IN RESPECT TO A CALIBRATION-OBJECT



(57) Abstract: The invention refers to a method for calibrating a camera-laser-unit (1) in respect to at least one calibration-object (12) disposed at a given position and orientation in a three-dimensional space (13). The camera-laser-unit (1) comprises a laser (4) and a camera (3), wherein the laser (4) and the camera (3) are disposed in a given distance to each other. An optical axis (9) of the laser (4) and an optical axis (8) of the camera (3) include a given angle ( $\alpha$ ). The camera-laser unit (1) is adapted to record the location, form and/or dimensions of a measurement-object (5). The method has the advantage that the same calibration-object (12) can be used for the calibration of the camera (3) and of the laser (4), wherein first the camera (3) is calibrated using a Tsai-algorithm and then the laser (4) is calibrated in respect to and by making use of the already calibrated camera (3).



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